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ABSTRACT

An outline for a library science course in environmental information is provided, as well as selected information sources and reference materials. The outline includes historical and philosophical perspectives, information users and behavior, information resources, institutions and individuals as information producers, information systems and processes, and international information exchange. The selected bibliography lists monographs, journal articles, reference works, indexing and abstracting publications, current awareness services, review series, yearbooks and annuals, retrospective bibliographies, and directories of institutions. (MBR)

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# ENVIRONMENTAL INFORMATION RESOURCES FOR A COURSE

by

Marta Dosa

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TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC) AND USERS OF THE ERIC SYSTEM."

IR007138

IST627 Environmental Information M. Dosa

Course Outline

I. Genesis of the Environmental Concern: Philosophical and Historical Perspectives

1. Folklore, Literature, Art and Social Attitudes
2. Early Environmentalists - Concern for a Man-Made World
3. The Ecological Movement of the Sixties and Seventies
4. Public Interest in Governmental and Legal Processes
5. The Role of Communications and Information Transfer

II. Characteristics of Information Behavior in a Multi-disciplinary Field

1. Environmental Science - Concepts and Terminology
2. Technology Assessment and Public Policy
3. Problem-focused vs. Discipline-oriented Research
4. Curricular Changes at Academic Institutions
5. Interrelationships of Research and Social Action

III. Current and Potential Users of Environmental Information

1. Variations in Approach, Frame of Reference, Methodology
2. Audience Groups

   Researchers
   Policy Planners
   Decision Makers
   Management
   Educators, Students
   Service professions
   Consumer-Protection groups
   Participating and Potential Publics
3. Institutions as Information Users
4. Individuals as Information Users

IV. Information Resources

1. An Integrating Approach to Information Resources

   A. Problem Areas (Examples)

      Air Pollution
      Conservation of natural resources
      Energy
      Food, nutrition
      Industrial pollution
      land pollution
      Marine pollution
      Noise pollution

   B. Professional Approaches to Problems (Examples)

      Agriculture
      Anthropology
      Architecture
      Arts
      Business and commerce
      Economics
      Education
      Esthetics
      Forestry

Nuclear (radiation) pollution
Pesticides
Population growth
Soil pollution
Solid waste disposal
Thermal pollution
Urban environment
Visual pollution
Water pollution (exclusive of marine pollution)
Others

Governments
Human, behavioral, psychological aspects
Law
Management
Medicine, Psychiatry
Military aspects
Planning
Political science
Science and technology
Sociology (rural, suburban, urban aspects)
Others

2. Institutions as Information Producers

   A. Governments
   B. Industry
   C. Legislatures, Courts
   D. Service Agencies
   E. Publishers
   F. Research Institutes
   G. Academic Institutions
   H. Public-Interest Groups

3. Individuals as Information Producers

   A. The Creative Process
   B. Informal Information Chains
   C. Formal Information Chains
   D. The Effect of Lifestyles on Information Transfer

4. Types of Media

5. Raw and Interpreted Data

V. Information Systems

1. Data Banks

2. Information Exchange Systems

   A. Information Analysis and Dissemination Centers
   B. Publication Services (Indexing, Abstracting, Current Awareness, Review, etc.)
   C. Libraries, Information Centers, Archives

3. Referral Centers

VI. Information Processes:

Identification, Acquisition, Organization, Management, Interpretation and Dissemination of Environmental Data and other forms of Information

1. Special Processes concerning Form:

   A. Operational Policies and Measures
   B. Forecasts

C. Impact Statements
D. Data for Environmental Indeces
E. Legislative and Regulatory Information
F. Patents
G. Standards and Specifications
H. Numerical data

2. Special Processes Concerning Contents:

A. Evaluation, Condensation, Repackaging of Data
B. Information for Decision makers
C. Information for the Mass Media
D. Information for the Layman
E. Uses of Counseling Methods in Information Delivery
F. Referral to Institutions or Individuals
G. Follow-up to Referral

VII. International Exchange of Environmental Information

1. Governmental and Intergovernmental Processes

A. Organization for Economic Cooperation and Development (OECD)
B. United Nations Environment Programme (UNEP)
C. UNESCO - Man and the biosphere (MAB)
D. Others

2. Non-Governmental Organizations

A. Environmental Education in the Political Context
B. The Mass Media, Public Libraries and Educational Information

3. Case Studies of National Environmental Information Systems

A. National Focal Points of Information Referral
B. Discipline-Oriented Environmental Data Services
C. Multidisciplinary Data (e.g. Transportation, Population Studies, Gerontology, etc.)

4. The Special Role of Information in Developing Countries

## BASIC SOURCES

### Indexing and Abstracting Services

Air pollution abstracts
Energy index
Environment abstracts
Pollution abstracts
Urban affiars abstracts

### Journals

The ecologist
Environment
Environment action bulletin
Environmental affiars
Environmental law reporter
International associations
Journal of environmental health
Natural resources journal

### Monographs

Meadows, et.a., The Limits of Growth
Futures, The limits to growth controversy (Special issue)
Ward and Dubos, Only one earth

### Governmental and Intergovernmental Reports

OECD, Information for a changing society
UNESCO, UNISIST study report
UN Economic Commission for Europe, ECE symposium on problems relating to environment
U.S. Environmental Protection Agency, Alternative futures and environmental quality

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